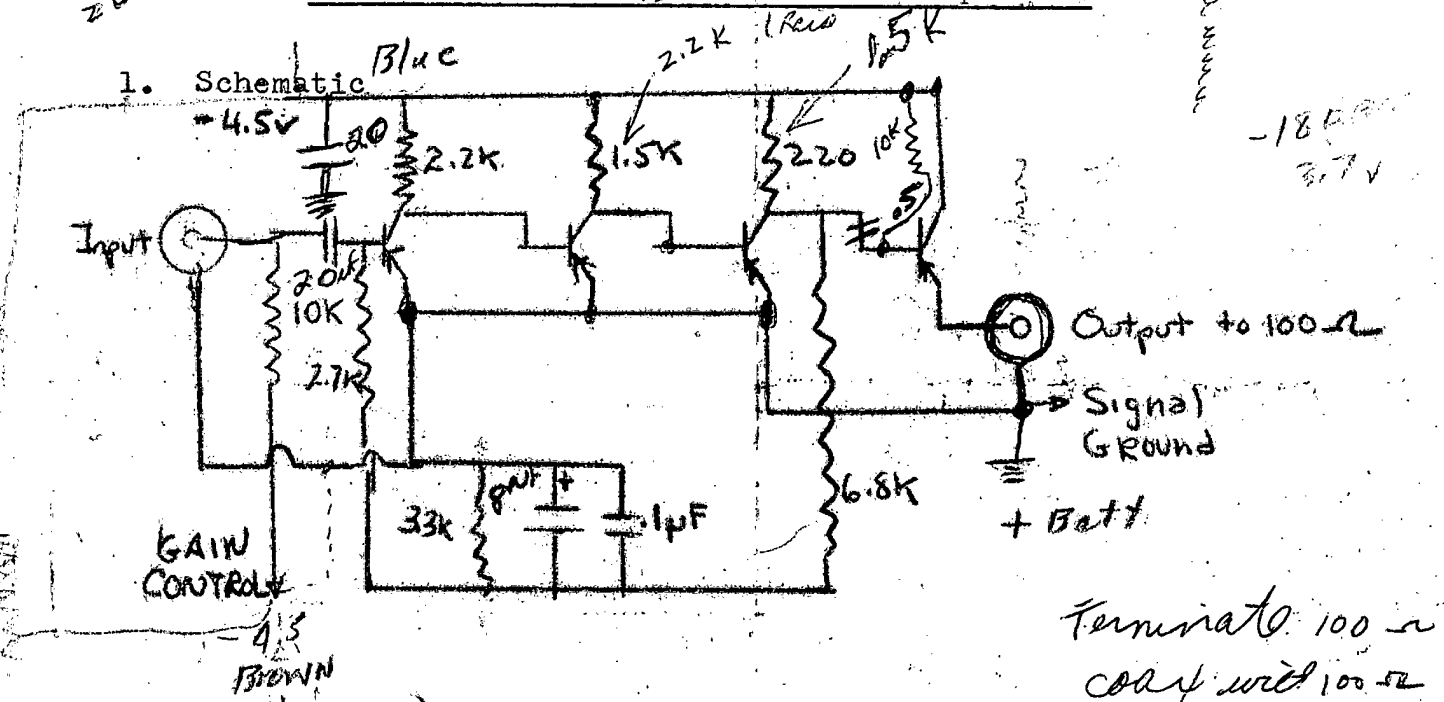


Instructions For 750Kc Video Preamplifier



2. Connect amplifier as shown in above schematic diagram. RG62/U cable should be used for input and output leads.

3. The output cable should be terminated in its characteristic impedance (100 ohms).

4. Gain control, if used, should be connected to -4.5V through 500K potentiometer. The optimum bias for 1N23C Crystal is 40 microamperes at -.16 volts (brown lead).

5. Battery voltage should not exceed -5 volts (blue lead).

6. All grounding should be accomplished through signal grounds.

1. Recovery Time Very good (small)

1.2 Mc/s. 3db point (stand. seq. Ser.)

gain - 61 dbm (comparable with 30 mV across 100 Ω)

Swenmaster - 50Mc. swen osc. 0-50Mc.

Output to base of xistor (load xistor with 200 Ω = R_L)

compare input with output

11K Mc.

Tangential signal.

STAT

PNP

SB-100

Surface Barrier

Max. Coll. Power (mw) 10
 " " V_{olt} (v) -4.5
 " " ~~Power~~ (ma) -5

Typ. Small Signal Low Freq. Parameters

a) Bias V_c(v) = -3 I_c(ma) 0.5

b) β 19

c) r_e(ohms) 50

d) r_b(ohms) —

e) r_c(mega) 0.4

C_c(mf) 2.2

I_{co}(ma) -0.5

I_{eo}(ma) 0.5

2 MV. out
 1000 MV. in

.002

.001

HF Parameters

r_b C_c(nsec) 800